

## Specification

Please replace the paragraph on page 94, lines 17-24, of the specification with the following paragraph:

-- FIG. 27 shows a diagrammatic representation of gene expression profiles of blood samples from individuals who were identified as having symptomatic Chagas disease; asymptomatic Chagas disease or who were control individuals as described herein ~~as compared with gene expression profiles from non-schizophrenic individuals~~. Expression profiles were generated using GeneSpring™ software analysis as described herein. Each column represents the hybridization pattern resulting from a single individual. Control samples presented without Chagas disease but may have presented with other medical conditions and may be under various treatment regimes. - -

Please replace the following paragraph on page 94, line 25 to page 95, line 4, of the specification with the following paragraph:

- - Hybridizations to create said gene expression profiles were done using the Affymetrix™ U133A chip. A ~~dendrogram~~ dendrogram analysis is shown above. Samples are clustered and marked as representing patients who have symptomatic ~~chagas~~ Chagas disease; asymptomatic ~~chagas~~ Chagas disease or control. The number of hybridizations profiles determined for patients with ~~chagas~~ Chagas disease; asymptomatic ~~chagas~~ Chagas disease or who are controls are shown. 668 genes were identified as being differentially expressed with a p value of <0.05 as between the symptomatic, asymptomatic Chagas patients and those control individuals. The identity of the differentially expressed genes is shown in ~~Table 3Y~~ Table 3Z. - -

Please replace the following paragraph on page 95, lines 5-10, of the specification with the following paragraph:

- - Classification or class prediction of a test sample of an individual to determine whether said individual has symptomatic Chagas disease, asymptomatic Chagas disease or does not have Chagas disease can be done using the differentially expressed genes as shown in ~~Table 3Y~~ Table 3Z as the predictor genes in combination with well known statistical algorithms as would be

understood by a person skilled in the art and described herein. Commercially available programs such as those provided by Silicon Genetics (e.g. GeneSpring<sup>TM</sup> for Class Predication are also available. - -